

(a) STS-124 trench wall damage for reference.

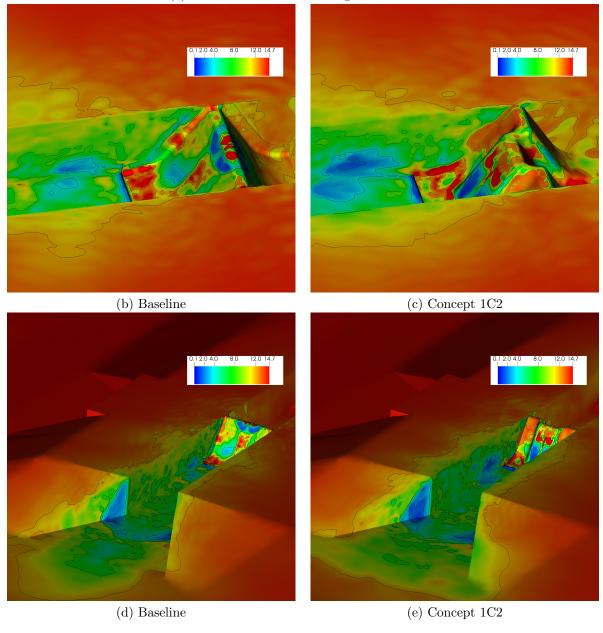


Figure 41: Minimum surface pressure values over the time-interval $T_1 < t < T_2$, trench wall views. Note, that T_1 is equal to the time of the SRB ignition and $T_2 > T_{SS}$, where T_{SS} is the time where the rocket engines reach quasi-steady state conditions.



(a) STS-124 trench wall damage for reference.

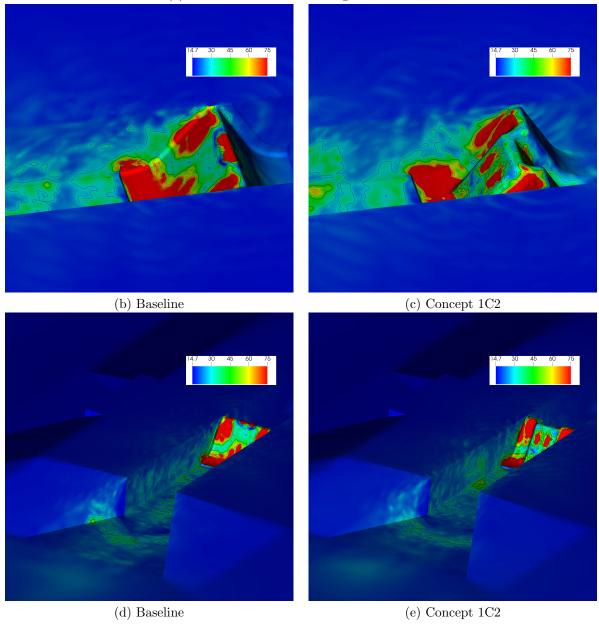


Figure 42: Maximum surface pressure values over the time-interval $T_1 < t < T_2$, trench wall views. Note, that T_1 is equal to the time of the SRB ignition and $T_2 > T_{SS}$, where T_{SS} is the time where the rocket engines reach quasi-steady state conditions.

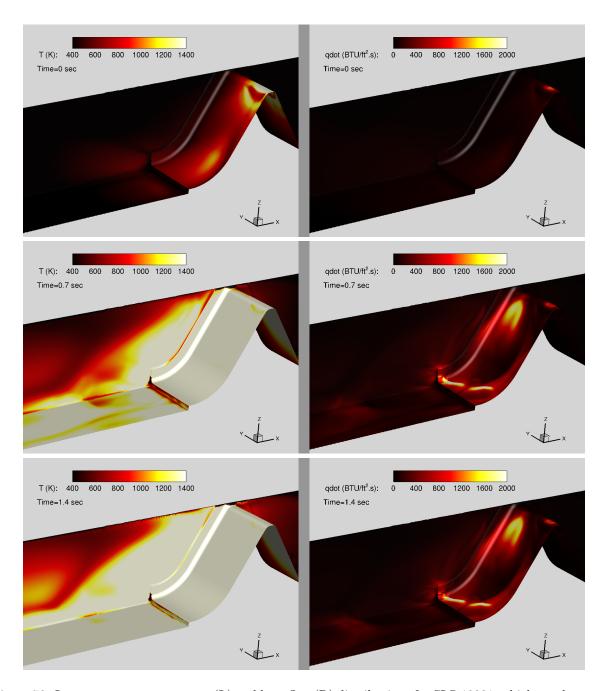


Figure 79: Instantaneous temperature (L) and heat flux (R) distributions for SLS-10001 vehicle on the trench wall of Baseline MFD.